



DOCKET NO. CELL-0302/PAC023-USW01  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Robert John Watson, et al.

Confirmation No.: 8432

Application No.: 10/552,187

Group Art Unit: Not Yet Assigned

Filing Date: July 6, 2006

Examiner: Not Yet Assigned

For: CYCLIC QUARTERNARY AMINO DERIVATIVES AS MODULATORS OF  
CHEMOKINE RECEPTORS

DATE OF DEPOSIT: *October 17, 2006*

I HEREBY CERTIFY THAT THIS PAPER IS BEING  
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*Elizabeth A. McLoud*

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of **\$180.00** as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of **\$180.00** as set forth in § 1.17(p).

- ☒ Copies of reference numbers **1 – 11 and 14 - 25** listed on the attached Form PTO-1449 are enclosed herewith.

- ☒ Copies of reference numbers **12 - 13** on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

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**PATENT**

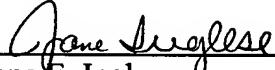
- 3 -

☐ The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: *October 13, 2006*

  
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Jane E. Inglese  
Registration No. 48,444

WOODCOCK WASHBURN LLP  
One Liberty Place - 46th Floor  
Philadelphia, PA 19103  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439

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<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. CELL-0302/ PAC023-Usw01	Application No. 10/552,187
	Applicant Robert John Watson, et al.	
	Filing Date July 6, 2006	Group Not Yet Assigned
		Confirmation No. 8432

**NON-PATENT DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	<b>1</b>	Bodor, N., "Novel approaches in prodrug design," <i>Alfred Benson Symposium</i> , <b>1982</b> , 17, 156-177
	<b>2</b>	Bousquet, J., et al., "Eosinophilic inflammation in asthma," <i>J. Med.</i> , <b>1990</b> , 323(15), 1033-1039
	<b>3</b>	Kay, A.B., et al., "Eosinophils and neutrophils," <i>Br. Med. Bull.</i> , <b>1992</b> , 48, 51-64
	<b>4</b>	Luster, A.D., "Chemokines – chemotactic cytokines that mediate inflammation," <i>New Eng. J. Med.</i> , <b>1998</b> , 338, 436-445
	<b>5</b>	Naya, A., et al., "Design, synthesis, and discovery of a novel CCR1 antagonist," <i>J. Med. Chem.</i> , <b>2001</b> , 44, 1429-1435
	<b>6</b>	Qin, S., et al., "The chemokine receptors CXCR3 and CCR5 mark subsets of T cells associated with certain inflammatory reactions," <i>J. Clin. Invest.</i> , <b>1998</b> , 101, 746-754
	<b>7</b>	Rollins, B.J., "Chemokines," <i>Blood</i> , <b>1997</b> , 90(3), 909-928
	<b>8</b>	Schwarz, M.K., et al., "Interfering with chemokine networks – the hope for new therapeutics," <i>Curr. Opin. Chem. Biol.</i> , <b>1999</b> , 3, 407-417
	<b>9</b>	Singh, G., et al., "Prodrug approach in new drug design and development," <i>J. Sci. Ind. Res.</i> , <b>1996</b> , 55, 497-510
	<b>10</b>	Sørensen, T.L., et al., "Expression of specific chemokines and chemokine receptors in the central nervous system of multiple sclerosis patients," <i>J. Clin. Invest.</i> , <b>1999</b> , 103(6), 807-815
	<b>11</b>	Wells, T.N.C., et al., "Definition, function and pathophysiological significance of chemokine receptors," <i>Trends Pharmacol. Sci.</i> , <b>1998</b> , 19, 376-380

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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**U.S. PATENT DOCUMENTS**

	12	3,424,761	01/28/69	Helsley	260	326.3
	13	6,329,395 B1	12/11/01	Dugar, et al.	514	329

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**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	14	WO 00/23419 A1	04/27/00	PCT		
	15	WO 00/76511 A1	12/21/00	PCT		
	16	WO 00/76512 A1	12/21/00	PCT		
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